S/080/61/034/002/014/025 A057/A129

Kinetics of butane dehydrogenation ...

the maximum H/D ratio is 4. Selectivity decreases with decreasing H/D (Fig 2). Change in yield with H/D is emplained by the different mixing and passing of the gas at different conditions. Two contrary factors affect the reaction rate: decreasing efficiency of gas mixing increases yields, while increasing heterogeneity of the bed decreases yield. Thus a maximum is observed as in other similar reactions (Ref 8: I.I. loffe, A.F. Grigorov, Khim. prop. . 3, 57 (1959)). The effect of D was investigated in reactors with D = 25, 35, and 45 mm at 550°C, H/D = 2, and d mean 27μ. It was cheerved that the linear flow rate increases with increasing D, since the passing of the gas increases. Selectivity increases with decreasing D. Experiments with H/D = 4, D = 25 mm at 550°C and varying d (227, 82, 69, and 83 μ) demonstrated that with decreasing d the yield also decreases. Yields and selectivity at optimum conditions (D = 25 mm, H/D = 4, d = 277/2) for suspended catalyst beds were compared with those obtained at similar scaditions but with stationary satelyst beds (experiments parried out in popperation with N.F. Vinnik and M.V. Sotskova). The results (F1# 6,7) demonstrate that the yield and selectivity is higher in stationary catalyst beds. Experiments concerning ambon de-

Card 3/8

S/080/61/034/002/014/025 A057/A129

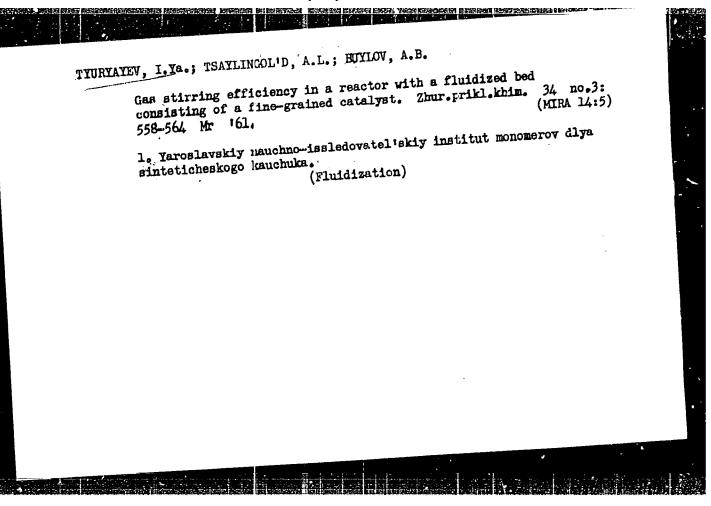
Kinetics of butane fehydrogenerick ...

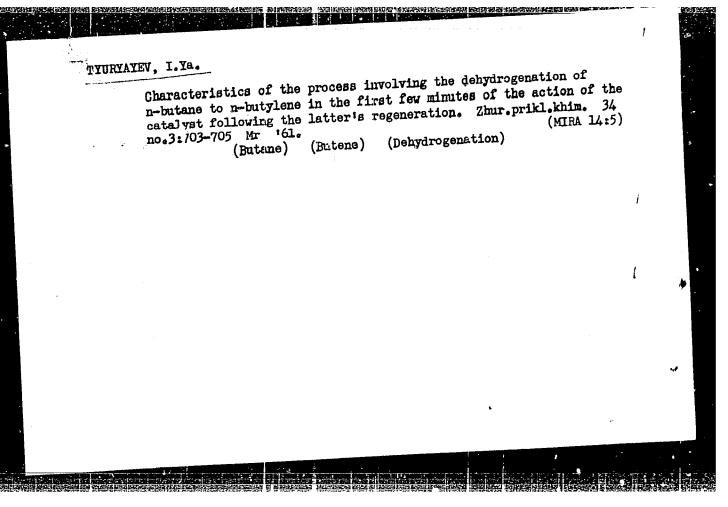
posit rate in dahydrogenation demonstrated that the amount of deposited carbon is 1.9 times greater in suspended than in stationary ratelyst bed processes. There are 7 figures, 1 table and 11 references: 8 Soviet-bloo, processes. There are 7 figures, 1 table and 11 references: 8 Soviet-bloo, and 3 non-Soviet-bloo. The English-language publications read as follows: and 3 non-Soviet-bloo. The English-language publications read as follows: J.F. Mathis, C.C. Watson, A.J.Oh.E.J., 2,4,518 (1956), M. Goldman et al, J.F. Mathis, C.C. Watson, A.J.Oh.E.J., 2,4,518 (1956), M. Goldman et al, J. Appl. Chem., 7,5,274 (1957), I.M. Dotson, A.J.Oh.E.J., 5, 2, 169 (1959).

ASSOCIATION: Nauchno-iseledovatel'skiy institut menomerov ilya SK (Scientifis Research Institute for Monomers for Synthetic Rubber)

SUBMITTED: April 4, 1960

Card 4/8





S/076/61/035/004/005/016 B106/B201

AUTHORS:

Kolobikhin, V.A., and Tyuryayev, I.Ya.

TITLE:

Rate of conversion reactions of butadiene or a catalyst for

the dehydrogenation of n-butylene

Zhurnal fizicheskoy khimii, v. 35, no. 4, 1961, 776 - 791

TEXT: The wide reactions taking place in the catalytic dehydrogenation of PERIODICAL: n-butylene in the presence of water vapor at 580-630°C in addition to butadione lead to the formation of CH4, C2H4, C2H6, C3H6, C3H6, higher "coal" deposits on the catalyst. The wide reactions may be assigned to two groups: decomposition reactions and pohydrocarbons, CO, and CO2; lymerization reactions of C4H8 and C4H6, on the one hand, and reactions of water vapor giving rise to CO2 and CO. In this connection, the authors studied the rates of conversion reactions of butadiene in the presence of water vapor on the technical catalyst used in the dehydrogenation of butylene. The investigation was made in a quartz tube 20 mm in diameter Card 1/8

CIA-RDP86-00513R001857810002-9" APPROVED FOR RELEASE: 04/03/2001

s/076/61/035/004/005/016 B106/B201

Rate of conversion reactions ...

attached to an electric furnace. 10 ml of the catalyst (grain size 2-2.5 mm) were introduced into the tube within the heating range of the furnace. The temperature of the catalyst layer was measured with a chromel-alumel thermocouple applied in the middle of the layer. Temperature fluctuations during the experiments did not exceed = 2-3° C. In most of the experiments ments, the mixture used as initial product was 84.7% C4E6, 14.7% n-C4H8, and 0.6% of lighter hydrocarbons (percents by volume). The dilution of butadiene vapors by water vapor was regulated by the temperature of the water vaporizer. The reaction products were analyzed chromatographicully, CO and CO2 were determined by well known methods. Table 1 presents the results obtained under different conditions. CO, CO2, H2, CH4, C2H4, and "coal" resulted from the butadiene conversion on the catalyst in the presence of water vapor. The composition of the C3 fraction could not be determined due to the low concentration, and was taken to be propylene. Very small amounts of higher hydrocarbons were also formed. If CH4, C2H4, C3H6, and "coal" are considered to result from butadiene on the Card 2/8

CIA-RDP86-00513R001857810002-9" **APPROVED FOR RELEASE: 04/03/2001**

\$/076/61/035/004/005/018 B106/B201

Rate of conversion reactions ...

catalyst in the presence of water vapor, while CO2, CO, and H2 are formed by reaction of "coal" with the water vapor, the experimental results may be reproduced by the following equations: $C_4H_6 \rightarrow 0.098 \text{ CH}_4 + 0.024 \text{ } C_2H_4$ + 0.017 $C_3^{H_6}$ + 0.68 $C_4^{H_8}$ + 1.08 $C_1^{H_2}$ 0 + 0.5068 $C \longrightarrow 0.4931 CO_2$ +'0.0137 CO + H2. Thus, the principal reactions in the butadiene conversion are the hydrogenation to butylene and the decomposition to "coal". The rate of the above equation for the butadiene conversion obeys the kinetic equation $r = kp_{C_4}H_6^{/(1+k_{C_4}H_6^{p_{C_4}H_6}+k_{H_2}p_{H_2})^2}$ (1). Constants k and $k_{C_4H_6}$ were determined from this equation by graphical representation in the coordinates $\sqrt{p_{C_4^H6}/r_0} - p_{C_4^H6}$ (initial rate $r_0 = kp_{C_4}H_6^{/(1+k}C_4H_6^{p_{C_4}H_5})^2$ at $p_{H_2} = 0$). The following equations were derived: log k = (-4050/4.575 T) + 0.976; $log k_{C_4}H_6 = (-20600/4.575 \text{ T})$ - 4.323. After substituting the two constants in Eq. (1), the following Card 3/8

S/076/61/035/004/005/018 B106/B201

Rate of conversion reactions ...

temperature dependence was found for k_{H_0} :

log k_H = (44900/4.575 T) - 9.77. Eq. (1) with the constants that were determined holds for an experiment duration of one hour. The extent x of the butadiene conversion on the catalyst decreases with an increase of experiment duration t according to equation x = x exp(-0.03661 \tau.59) (x = extent of conversion for \tau = 0). The values of x at 560°C were 0.76, at 580°C 0.82, and at 600°C 0.91. The main cause of the decrease of catalyst activity with time is the "coal" deposition. The rate of reaction of water vapor with coal according to the above second equation is directly proportional to the amount of "coal" formed and the partial pressure of the water vapor. The rate constant of this reaction is not strongly temperature dependent, and, under the experimental conditions, the reaction takes place manifestly in the diffusion region. The extent of reaction of deposited "coal" with water vapor is an important characteristic for the catalyst, as from it depends the admissible duration of the dehydrogenation cycle, and it characterizes the rate by which the

Card 4/8

s/076/61/035/004/005/018 B106/B201 Rate of conversion reactions ... Table 2 presents data concerning the extent of the reaction of deposited "coal" with water vapor. There are 5 figures, 2 tables, and 11 references: 8 Soviet-bloo and 3 non-Soviet-bloc. The three references to English language publications read as follows: L.H. Beckberger, K.M. Watson, Chem. Engng. Progr., 44, 3, 229, 1948; J. C. Reidel, Oil a. Gas J., 55, 48, 87, 1957; R. W. Blue, V.C.F. Holm, R. B. Regier, E. Fast, L.F. Heckelsberg, Industr. Engng Chem., 44, 1957; R. W. Blue, V.C.F. 2710, 1952. July 13, 1959 SUBMITTED: Состав нонтактного газа,объеми. % **(4)** Angouna Connected 4 Ç RHIPPORT C'II" C,H, C.H. C.H. C.H. CH4 н. co CO. Card 5/8

PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS	200000	conversion	reaction			S/07	6/61/035 5/B201	/004/005/	018	
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	anna 6	580 i : i0 i i i i i i i i i i i i i i i i	400 13,4 0,800 9,6 0,500 6,2 0,400 4,6 0,400 16,3 0,500 8,3 0,300 3,8 0,400 15,8 0,400 15,8 0,400 15,8 0,500 12,4 0,500 6,7 0,6 0,7 0,500	2 24,5 24 4 15,7 1 2 214,2 2 8,7 2 2 32,9 2 2 15,5 2 2 20,2 2 2 58,25 2		0,0 0,7 0,8 0,0 0,0	0,0 28,4 20,0 23,9 0,0 19,6 0,0 17,3 0,0 15,6 0,0 17,9 0,0 16,5 0,0 16,5 0,0 16,5 0,0 16,5 0,0 16,5 0,0 15,0 0,0 15,0 0,0 15,0 0,0 15,0 0,0 12,4	100,1 51,3 18,5 29,6 19,0 18,1 12,2 25,0 40,9 40,9 40,0 29,8 54,0 14,8 69,0 21,1 24,8 42,0 40,8 26,2 54,3 12,0 57,9 11,1		
er i este i	Card 6									

Rate of conversion reactions ...

S/076/61/035/004/005/018 B106/B201

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Legend to Table 1: Composition of the gas obtained in the conversion of butadiene on a catalyst for the dehydrogenation of n-butylene; (1) experimental conditions; (2) temperature, °C; (3) dilution, mol/mol; (4) volume rate, 1/1/hour; (5) composition of contact gas, percents by volume; (6) C₃ fraction; (7) conversion per passage, %.

Card 7/8

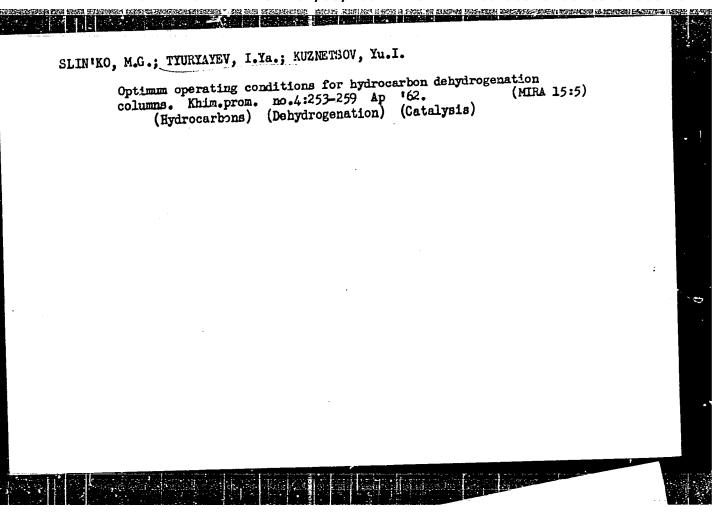
Rate of conversion reactions ...

B/076/61/035/004/005/018 B106/B201

Table 2	Разбавле-	(2) Te	•C	
	ные водя: паром по объему	560	580	600
	1:10 1:20 1:30	0,69 0,83 0,86	0,76 0,85 0,91	0,80 0,90 0,93

Legend to Table 2: Conversion of "coal" depositing on catalyst in butadiene conversion (values for one-hour experiments); (1) dilution with water vapor per volume; (2) temperature, ^{OC}.

Card 8/8



S/204/62/002/004/001/019 E071/E433

AUTHORS:

Tyuryayev. I.Ya., Vinnik, N.F.

TITLE:

: { = ~

Kinetic relationships in the single stage dehydrogenation of n-butane into divinyl in vacuo

PERIODICAL: Neftekhimiya, v. 2, no.4, 1962, 436-441

The single stage dehydrogenation of n-butane into divinyl in vacuo was investigated using a laboratory isothermic reactor From the analytical results obtained the following factors were calculated: yield of divinyl per pass, with a stationary catalyst. degree of conversion, selectivity and degree of conversion, selectivity and degree of single stage. The influence on these factors of temperature, volume velocity, pressure, composition of starting butane-butylene mixture, duration of the dehydrogenation and pretreatment of the catalyst with hydrogen was studied. yield of divinyl per pass increases with increase of temperature, decrease of pressure, increase of butylene in the starting mixture, decrease of duration of the dehydrogenation (not less than 7 minutes) and at the expense of pretreatment of the catalyst The degree of single stage increases with decrease with hydrogen. Card 1/2

Kinetic relationships ...

S/204/62/002/004/001/019 E071/E433

of butylene contents in the starting mixture, decrease of temperature and decrease of volume velocity, with increase of pressure and at the expense of pretreatment of the catalyst with hydrogen. The amount of deposited "carbon" increases with temperature, duration of dehydrogenation and increase of butylene content in the starting mixture. Pretreatment of the catalyst with hydrogen decreases sharply the deposition velocity of the carbon. The selectivity increases by increase of the volume velocity, decrease of temperature or pressure and, especially by pretreatment of the catalyst with hydrogen. On the basis of the data obtained, the optimum conditions for the single stage dehydrogenation of butane on the same catalyst in an adiabatic reactor of periodic action were calculated. There are 4 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya SK Yaroslavl' (Scientific Research Institute of Monomers for SK Yaroslavl')

Card 2/2

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TYURYAYEV, I.Ya.; BUYLOV, A.B.

Investigation and design of sieve gratings fo

Investigation and design of sieve gratings for sectioning reactors with a fluid-bed catalyst. Zhur.prikl.khim. 35 no.10: 2224-2231 0 '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka.
(Chemical reactors) (Fluidization)

S/020/62/144/005/008/017 B106/B138

AUTHORS:

Kolobikhin, V. A., Tyuryayev, I. Ya., Sobolev, V. M., and

Yemel'yanova, Ye. N.

GIGTE:

Preparation of butadiene by oxidative dehydrogenation of

n-butylanes

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 5, 1962, 1053-1055

TEXT: The authors studied the oxidation of an industrial butylene fraction (composition in % by volume: $C_3^H_6$: 0.3; $C_4^H_{10}$: 3.0; 1- $C_4^H_6$: 22.1; 2-C4H6: 71.6; C4H6: 2.4; C5 and higher: 0.4) with air or oxygen on mixed catalysts consisting of metal oxides of groups V and VI of the periodic system on various carriers. The oxidation was conducted in a continuous system on various carriers. The molar ratio air: C_4H_6 was flow system under atmospheric pressure. The molar ratio air: C_4H_6 was 2.06-2.42. Butadiene is the main oxidation product forming 38-45 mole% between 460 and 550°C, with initial butylene (31-45.5%), carbon dioxide (9.2-14.5%), and small amounts of low hydrocarbons (2.4-7.8%) as well.

Card 1/3

S/C20/62/144/005/008/C17 B106/B138

Preparation of butadiene by ...

Practically no hydrogen and only very small amounts of carbonyl compounds form. 97-99% oxygen is used in the oxidation. The best conditions for oxidative dehydrogenation of n-butylenes into butadiene are: temperature: 530°C, volume velocity of butylene: 600 hrs-1; molar ratio: $C_4H_8: O_2=2:1$; dilution of butylene with water vapor: $C_4H_6: H_2O$ = 1:3-1:4 (molar ratio) (Fig. 1). At 530°C, an increase in volume velocity from 600 to 860 hrs-1 reduces the butadiene yield from 50 to 45% and increases the reaction selectivity from 85 to 93%. Higher oxygen concentration will raise the degree of butylene conversion, and hence the yield of deep oxidation products (CO, CO₂), and reducing selectivity. A change of from 1: 4 to 1: 12 in the molar dilution ratio butylenes: water valor has practically no effect on the conversion or selectivity. The reasing the ratio ${\rm C_4H_8}$: ${\rm H_2O}$ to 1 : 1 accelerates formation of the product of deep exidation, and reduces the butadiene yield. In contrast to the dehydrogenation of $C_4H_6 \longrightarrow C_4H_6 + H_2$, the main reaction $C_4^{\rm H}_6$ + 1/2 O_2 -> $C_4^{\rm H}_6$ + $H_2^{\rm O}$ is exothermic. Owing to the hydrogen bond, the butadiene yield is not limited by the reaction equilibrium. This opens up new possibilities for producing butadiene and isoprene. There Cord 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

S/C2C/62/144/CC5/CO8/O17 B1C6/B138 Preparation of butadiene by ... are 3 figures and 1 table. The English-language reference is: R. U. Brettow, Shen-Wu Wan, B. F. Dodge, Ind. and Eng. Chem., 44, 594 (1952). ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinte-ticheskogo kauchuka (Scientific Research Institute of Monomers for Synthetic Rubber) March 13, 1962, by B. A. Kazanskiy, Academician PRESENTED: SUBMITTED: March 13, 1962 HOR % ., 100 Fig. 1: Temperature dependence of the yields of reaction products. Legend: (1) selectivity; (2) C4H8 80 conversion; (3) yield of C_4H_6 per passage; 60 (4) CO_2 yield. 20 Card 7/3

ACCESSION NR: AP5010562	UB/0204/64/104/005/0707/0712
	ет, I. Ya.; Latsenko, B. V.; Rodnaryuk, T. S.
FITLS: Synthesis of isoprene from pain the presence of HBr	propylene. 4. Decomposition of 2-methylpentene-2
SOURCE: Neftekhimiya, v. 4, no. 5,	1964, 707-712
MOPIC TAGS: catalysis, hydrogen, bro	comide, propylene, chemical stability, hydrocarbo
Aba race. The inflience of temps of complete on excation on the yield of liam of oppositions of Z-methylpeatene 2 in the seasons and under various.	ing kinger of guge on Elementak than noor of the first ก็ชื่ on energy of complements of the first ongs presentee of MEH ware are processed to spreened open one some are armone; her complement of the complement
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obtained at 6150, time of constact male of C.H12 yield of tachene !	of45 year and HBs correptration 3.36 moleshing 32 mol %, selectivity 49 mol 5. A nation sm
of the decomposition of 2-methy persistion of the products obtained, w	was proposed on the basis of the theory of following and an explanation was given for

l 36185–65 accession nr: ap5010562		1/004/c05/0707/0712 2	165.
the role of HBr in this process			
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JOSEPANIE LENGT	我还 为一个。)	öt re.	
Card 2/2			

Fa-4/Pr-4 EPF(c)/EWP(j)/EWT(n)/T 8/0204/63/003/006/0850/0852 ACCESSION NR: AP4005737 AUTHORS: Kolobikhin. V.A.; Sobolev. V.M.; Tyuryaya Myasoyadov, M. .. TITLE: 1,3-butadiene synthesis by n-butane dehydrogenation SOURCE: Neftekhimiya, v. 3, no. 6, 1963, 850-852 TOPIC TAGS: butadiene derivative, butane, butane dehydrogenation, butadiene synthesis, butadiene, plefins synthesis, dehydrorenation, alpha butvlene, beta butylen . Tan a ratylens, it. was ABSTRACT: The authors staited the une of elemental icdine to increase the butadiene yield with n-outene relydrogenation and altimately to recover I according to the reaction 3410 + 212 346 the HI, MeC + 2HI H20 + MeI2 + 1/20. MeO + 12, using as the HI, acceptor metals with changing valence in a flow system at 5500, acceptor metals with changing valence in a flow system at 5500, and varying the molar ratio 12: 04H, from 0 to 1.43. After the and varying the molar ratio 12: 04H, of the contract was a second to 1.43. test was run for 30 minutes, the acceptor was easily regenerated by blowing air at the reaction temperature, and the iodine was isolated. The ratio Ip:04H10 determined the conversion rate, which increased from 36 to 70% with a ratio increase from 0.25 to 0.5 and reached Cord 1/2

L 39191-65

ACCESSION NR: AP4005737

92-94% and a CAH6 yield of 52.8% at the highest ratio selectivity and selectivity 200 Without lodine, conversion was 16% was made to the highest ratio selectivity and selectivity 200 Without lodine, conversion was 16% was made to the highest ratio selectivity and selectivity 200 Without lodine, conversion was 16% was made to the highest ratio selectivity and the selectivity and the selectivity was a selectivity and the sel

ratio I2:04H₁₀ = 0.56 and additional air, the conversion increased from 57 to 74% with slightly increased selectivity. Decreasing the temperature iscreased conversion but increased selectivity. Continuous reaction and regenerating may be effecte in figure.

ASSOCIATION: Neuchno-issledovatel skiy institut monomerov dlva sk

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SOURCE CODE: UR/0204/66/006/001/0071/0074

AUTHOR: Tyuryayev, I. Ya.; Grinenko, S. B.; Kadilova, I. L.; Kozorezov, Yu. I.;

Golubova, E. Ye.; Zhupanenko, V. V.

ORG: Institute of Chemistry of High Molecular Compounds, AN UkrSSR (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR)

TITLE: Effect of oxides of various metals on the oxidative dehydrogenation of isopentane into isoprene with the participation of iodine

SOURCE: Neftekhimiya, v. 6, no. 1, 1966, 71-74

TOPIC TAGS: transition metal oxide, dehydrogenation, isopentane, isoprene, iodine

ABSTRACT: Comparative data were obtained on the oxidative dehydrogenation of isopentane into isoprene with the participation of iodine and various metal oxides. The reaction products were analyzed by gas-liquid chromatography. From the standpoint of the isoprene yield from the dehydrogenation in the presence of iodine and air, the oxides are arranged in the following sequence:

CaO > Mn3 Ou > ZnO > NiO > CoO > Fe2O3,

and when air is replaced by nitrogen,

Card 1/2

UDC: 547.315.2:547.215-125:542,941.B:[546.15+546.3-31

ACC NR: AP6020391		
Ca0 > Mn3 Q4 > 1110 > Fe203 > Zn0 > Co0.		
The best characteristics are obtained when calcium oxide is used as the agent for hydrogen iodide. When 0.5 mole of iodine per mole of isopenta note of oxygen per mole of iso- C_5H_{12} are supplied at 530° and the contacsec, the isoprene yield is about 62 mole $\#$ in one operation for a select process of 82 mole $\#$. Orig. art. has: 1 figure and 2 tables.	ne and one	***
EUB CODE: 07/ SUBM DATE: 01Feb65/ ORIG REF: 003/ OTH REF: 001		:.
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THE PROPERTY OF THE PROPERTY ISSUED FOR THE PROPERTY OF THE PR

Principles of the production of butadiene by dehydrogenation of butane and butylene. Usp. khim. 35 no.1:121-149 Ja '66.

(MIRA 19:1)

1. Institut khimii vysokomolekulyarnyh soyedineniy AN UkrSSR i Nauchno-issledovatel skiy institut monomerov dlya sinteticheskogo kauchuka.

TSAYLINGOL'D, A.L.; TYDEYAYEV, I.Ya.; PILITENEO, F.S.; BASSPE, M.Ye.; ECSHCHATOV, V.V.; STEPANOV, G.A.

Investigating the kinetics of the oxidative denydrogenation of n-butylenes to bivinyl. Khim. prom. 42 no.9:647-651
3 '65.

(MIRA 18:9)

CHAPLITS, D.N.; SAMAKHVALOVA, K.D.; TYURTAYEV, L.Ya.

Calculating the equilibrium of the reaction of liquid phase hydration of isobutylene. Khim. prom. 42 no.9:653-555 3 '65. (MIRA 18:9)

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GRIGOROVICH, B.A.; TYURYAYEV, I.Ya.; LUTSENKO, S.V.; BODNARYUK, T.S.

Synther's of isoprene from propylene. Report No.4: Decomposition of 2-methylpentene-2 in the presence of HBr. Neftekhimiia 4 no.5:707-712 (MIRA 18:1)

S-0 164.

1. Nauchno-issledovatel skiy institut monome ov dlya sinteticheskogo kauchuka.

TTURYAYEV, 1. Ya. TSAY, INGELIE, A. L. : MARRIAMOV, V,V33 KOLOBIKHIN, V.A.

Obtaining nutadions-1,3 by the exidation dehydrogenation of butens in the fluidized bad. Meflakhimits 4 no.1:190-193 Mr-Apr64 (MIRA 17:8)

1. Hauchno-issiconvateliskly institut momentov glya sintetioneskego kauchuka, Yarusiavii.

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KOLOBIKHIN, V.A.; SOBOLEV, V.M.; TYURYAYEV, I.Ya.; MYASOYEDOV, M.I.

Production of bivinyl by dehydrogenation of n-butane. Neftekhimia 3 no.6:850-852 N-D '63. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka.

TSAYLINGOL'D, A.L.; TYURYAYEY, I.Ya.; BONDARENKO, A.V.; CHEREMUKHINA, T.A.

Catalytic hydrocracking of dixylmethane. Khim. i khim. tekh. 1:111-121 '62. (MIRA 17:2)

1. Nauchno-issledovatel skiy institut monomerov dlya sinteticheskogo kauchuka i Yaroslavskiy tekhnologicheskiy institut.

TYURYAYEV, I.Ya.; FEL'DBLYUM, V.Sh.; GRIGOROVICH, B.A.; GAL'PERIN, I.M.

Synthesis of isoprene from propylene. Khim.prom. no.9:647-650
S '63. (MIRA 16:12)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

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TYURYAYEV, I.Ye.; GUSAKOVA, L.A.

Variations in the activity and composition of chromia-alumina catalysts during their regeneration. Kin. i kat. 4 no.4:601-604 J1-Ag 163. (MIRA 16:11)

l. Nauchno-issledovatel skiy institut monomerov dlya sintetiches-kogo kauchuka, Yaroslavl.

BUYLOV, A.B.; TYURYAYEV, I.Ya.

Effectiveness of sectionalizing particle-mixing apparatus with a fluidized bed. Zhur. prikl. khim. 36 no.5:1028-1032 My '63.

(MIRA 16:8)

(Fluidization) (Mixing)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

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S/204/63/003/001/004/013 E075/E436

AUTHORS: Fel'dblyum, V.Sh., Kryukov, S.I., Ferberov, M.I.,

Golovko, A.V., Tyuryayev, I.Ya., Pankov, A.G.

TITLE: The synthesis of isoprene from propylene

2. Isomerization of 2-methylpentens-1 in the liquid

phase in the presence of solid acidic catalysts

PERIODICAL: Neftekhimiya, v.3, no.1, 1963, 20-27

TEXT: The object of the work was to isomerize 91.4% wt. pure 2-methylpentene-1 in the liquid phase using silica-alumina, cation exchange resin Ky-1 (KU-1), phosphoric acid-kleselguhr, alumina and silica gel as catalysts. All experiments were carried out at 100 and 150°C and at 75 to 125°C with KU-1 as catalyst. The isomerization is complicated by three secondary reactions, the main of which is the formation of dodecene (dimerization of isohekenes). A small amount of cracking gives amylenes (especially at the higher temperatures). There is also formation of small amounts of various isohekenes. Silica gel and alumina were the least active catalysts. With the remaining more active catalysts the velocity of the main and secondary reactions was much Card 1/3

S/204/63/003/001/004/013 E075/E436

The synthesis of ...

higher, the increased temperatures favoring the formation of dodecene and decreasing the yield of 2-methylpentene-2.

Isomerization of 2-methylpentene-1 (A) to 2-methylpentene-2 (B) with the formation of dodecenes (A2, AB and B2) proceeds as follows

 $A \rightleftharpoons B$, $2A \longrightarrow A_2$, $A + B \xrightarrow{K_2} AB$, $2B \xrightarrow{K_3} B_2$.

The relative values of K and K1, K2, K3 depend on the proton acidity of the catalysts. Thus their effectiveness may be obtained from all these values. The catalysts were rated in the order of increasing activity:

 $Al_2O_3 \approx 5iO_2$ \leq silica-alumina \langle H_3PO_4 - kieselguhr \approx KU-1. The effectiveness of acidic sites increases in the order KU-1 \langle H_3PO_4 - kieselguhr \leq silica-alumina. Catalysts KU-1 and silica-alumina give about 80% conversion to 2-methylpentene-2 at silica-alumina give about 80% conversion to 2-methylpentene-2 at silica-alumina give about 80% conversion to 2-methylpentene-2 at 51 and 100°C respectively. There are 2 figures and 4 tables.

Card 2/3

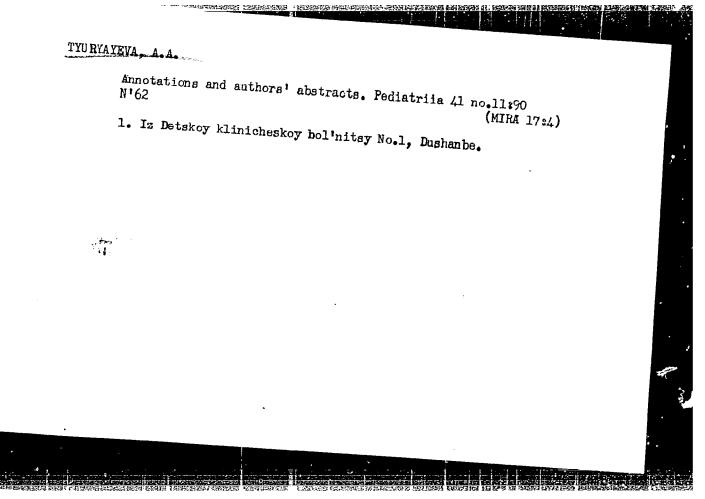
S/204/63/003/001/004/013

E075/E436

ASSOCIATION: Nauchno-issledovatel skiy institut monomerov dlya sinteticheskogo kauchuka Yaroslavskiy tekhnologicheskiy institut (Scientific Research Institute of Monomers for Synthetic Rubber, Yaroslav Technological Institute)

SUBMITTED: June 9, 1962

Rate of burning up of carbonaceous deposits in the regeneration of a butone dehydrogenation catalyst. Kin.i kat. 3 no.6:927-930 N-D '62. 1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka. (Butane) (Catalysts) (Combustion) (Combustion)



TYURYAYEVA, A.A.

Abdominal syndrome in rheumatic fever in children. Zdrav. Tadzh. 8 no.1:39-41 '61. (MIRA 14:3)

1. Iz kafedry detskikh bolezney (zav. - prof. V.S.Vayl') Stalinabadskogo meditsinskogo instituta imeni Abuali ibni Sino i Detskoy klinicheskoy bol'nitsy No.1. (RHEUMATIC FEVER)

TYURYAYEVA, A.L.

Paroxysmal hemoglobinuria in a child. Zdrav. Tadzh. 7 no. 3:49-50 (MIRA 14:4)

1. Iz kafedry detskikh bolezney (zav. - prof. V.S. Vayl')
Stalinabadskogo meditsinskogo instituta imeni Abuali ibni Sino.
(HEMOGLOBINURIA)

- 1. DRESLER, K. H.; TYURYNA, O. S.
- 2. USSR (600)
- 4. Toxins and Antitoxins
- 7. Sensitivity of new-born mice to B. pergringens toxin, Mikrobil. zhur., 14, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953,

MAKHONINA, G.I.; TIMOFEYEV-RESOVSKIY, N.V.; TITLYANOVA, A.A.; TYURYUKANOV, A.N.

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Distribution of strontium-90 and cesium-137 among the components of a biogeocoenose. Dokl. AN SSSR 140 no.5:1209-1212 0 '61.

(MIRA 15:2) 1. Laboratoriya biofiziki Ural'skogo filiala AN SSSR. Predstavleno akademikom V.N.Sukachevym.
(STRONTIUM-ISOTOPES)
(CESIUM-ISOTOPES)

(PIANTS-CHEMICAL ANALYSIS)

TYURYUKANOV, A. N.

THE BUT PROPERTY OF THE PROPERTY PROPERTY AND THE PROPERTY OF THE PROPERTY OF

TYURYUKANOV, A. N. --"The Underwater Soil of the Lower Part of Moscow River." Moscow Order of Lenin and Labor Red Panner State U imeni M. V. Lomonosov, Faculty of Soil Biology, Moscow, 1956 (Dissertation for the degree of candiate in Biological Sciences.)

KNIZHNAY IETOPIS No 41, October 1956

USSR/Soil Science - Genesis and Geography of Soils.

J

Abs Jour

: Ref Zhur Biol., No 22, 1958, 99975

Author

Tyuryukanov, A.N.

Inst

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Title

Concerning the Peculiarities of the Chemical Composition of Spil-Subspil Waters of the Bottom Lands and

Its Determining Factors.

Oric Pub

: Pochvovedeniye, 1957, No 9, 79-88

Abstract

: Observations were conducted on the left-bank part of the Faust widening of the Moscow River bottom lands on the meadow, sod-meadow, meadow-marsh soils and partly on slightly-podxolized soil of the first terrace above the bottom lands. In soil-subsoil waters, during the vernal period, concentrations of the bivalent Fe, Ca and the sulphate ions sharply increase; in meadow-marsh soil, there is an additional increase in the bicarbonate ions and the ions of Mg. Total ion concentrations of Na and K also

Card 1/2

USSR/Spil Science - Genesis and Geography of Soils.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 99975

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increase. In the soil-subsoil waters, only traces of phosphates are found; chlorine ions were found only in the spring in mead or and sod-meadow soils. Oxidation ofssulphides in the sod-meadow soil proceeds more intensively than in the meadow soil. Determination of the dissolved 0, by Winkler's method permitted the separation of three kinds of subsoil waters: in the region of sand terraces above the bottom lands, the 02 content in soilsubsoil waters reaches 6.8-8.25 mg/l, or respectively 65-83% of saturation; in soil-subsoil waters of the bottom lands near the terraces, the content of the dissolved 02 is equal to 0.1-0.2 $-\varepsilon/1$; the soil-subsoil waters of the near-the-river-bed and central parts of the bottom lands are characterized by a fairly stable content of the dissolved 0, in the summer period, corresponding to 25-30% saturation. -- S.A. Remizov

Card 2/2

- 9 -

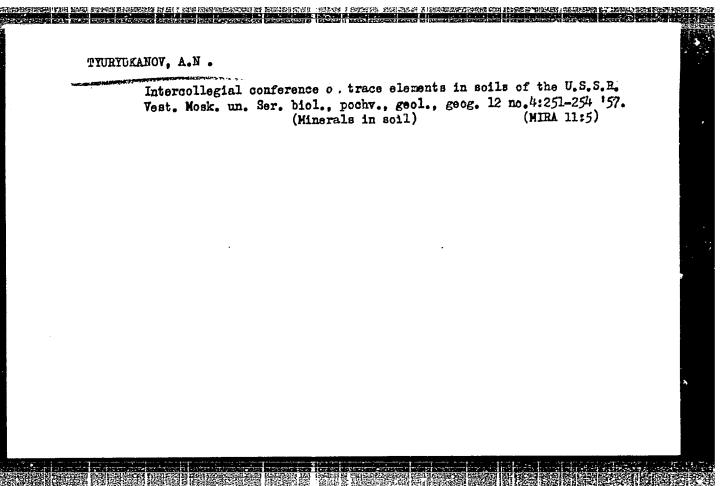
TYURYUKANOV, A.N.

Conference of representatives of higher institutions on microelements in soils of the U.S.S.R. Pochvovedenie no.11:105-107 N *57.

(MIRA 10:12)

(Trace elements)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"



TYCKYOKANOV, A. II.

Tyuryukanov, A. H.,

20-2-38/50

THE PERSON SERVICE SERVICE IN THE PROPERTY OF THE PROPERTY OF

AUTHOR:

On the Origin of the Granular and Fine-Schistose Structure of Flood-Plain Soils (O proiskhozhdenii zernistoy i tonkosloistoy struktury poymennykh pochv)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 297-300 (USSR)

ABSTRACT:

The maintainace of the fertility of the flood-plain soils is connected to a great extent with their granular structure. Moreover the fine-schistose structure is widely distributed here. The soil formation conceals the two types of the schistose structure: the micro- and macro stratified character. According to Bronzov the fine-schistose structure is produced by the action of wind and waves according to their power. Vil'yams traces the granular structure back to the bursting of the upper layer rich in humus as a consequence of drying out. The author investigated the inundation area of the lower course of the Moskva river, especially at the time of high water. These areas form in this period strange passage-waters. The hydrodynamical conditions lead to the differentiation of the alluvions according to their thickness as well as according to their mechanical and chemical composition. There is rich sedimentation material. During this short-lived period a special soil formation process takes place. A high intensity of

Card 1/3

20-2-38/50

On the Origin of the Granular and Fien-Schistose Structure of Flood-Plain Soils.

the biological processes, a strange "life stimulation" is characteristic of it. The author calls this earliest stage of soil formation the "mud" stage. In the here existing system: mud-soilnear water-main water of the temporary inundation reservoir the phytoplankton develops rapidly. The latter produces and separates a great quantity of oxygen and of organic substance into water. In the newly deposited mud layers intensive microbiological decomposition processes of the organic substance occur in the ratios of the reducing medium. Here are formed: ammonia, methane, with other hydrocarbons of the methane series, sulpharetted hydrogen, carbonic acid and other compounds. The gases escape freely from the semi-liquid or still humid mud layers into the air or solve in water. Thus a diffusion current is produced of the substances between the mud, the soil-near water, and the main water which here maintains the high intensity of the mcrobiological processes. The author uses the theory of the microzonal structure by Perfil'yev. According to this certain groups of anaerobic microorganisms are locally distributed in thin layers: "microzones" in the mud. This guarantees them a simultaneous inflow of vital different compounds. During the drying out of the mud layer the present system is re-

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

On the Origin of the Granglar and Fine-Schistose Structure of 20-2-38/50 Flood-Plain Soils.

placed by another system: mud-air. The mud dries and its "nicrozonal" structure is conserved. The dead organic structure serves as cement. The mud formation processes continued in the inner continue the separation of gas which, however, prevented from escaping by a surface crust. By this way the schostose structure is replaced by an alveolar one. The latter is the origin of the granular soil structure of the plains. The author denies the thermal bursting of themud layer in his afea. The further transformation of the soil is caused by soil animals, especially by earth worms. The surface is now already covered with grass. There are 2 tables and 4 Slavic references.

ASSOCIATION:

Moscow State University imeni M. V. Lomonosov (Moskovskiy gosud-

arstvennyy universitet im. M. V. Lomonosova)

PRESENTED:

April 1, 1957 by I. V. Tyurin, Academician

SUBMITTED:

April 1, 1957

AVAILABLE:

Library of Co ngress

Card 3/3

THE REPORT OF THE PROPERTY OF

KOVDA, V.A.; YAKUSHEVSKAYA, I.V.; TYURYUKANOV, A.N.

Trace elements in soils of the U.S.S.R. Izv. AN SSSR. Ser. biol. no.5:562-570 S-0 '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Biologo-pochvennyy fakulitet. (MINERALS IN SOIL)

TYURYUKANOV, A.N.

Origin and interrelationships of grainy and stratified bottom lands. Nauch.dokl.vys.shkoly;biol.nauki no.3:169-172 '58. (MIRA 11:12)

1. Predstavlena kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta imeni M.Y.Lomonosova. (Alluvial lands)

KOVDA, V.A.; YAKUSHEVSKAYA, I.V.; TYURYUKANOV, A.N.; PEREL'MAN, A.I., doktor geologo-mineralog.nauk, otv.red.; YERMAKOV, M.S., tekhn.red.

[Trace elements in the soils of the Soviet Union] Mikroele-

[Trace elements in the soils of the Soviet Union] Mikroelementy v pochvakh Sovetskogo Soiuza. Moskva, Izd-vo Mosk.univ., 1959. 63 p. (MIRA 13:3) (Trace elements) (Soils)

TYURYUKANOV, A.N.

Bottom-land soils in the lower Moskva Valley. Vest. Mosk.un. Ser. biol., pochv., geol., geog. 14 no.1:101-108 '59.

(MIRA 12:9)

1. Moskovskiy gosudarstvennyy universitet. Kafedra pochvovedeniya.

(Moskva Valley--Soils)

3 (5), 30 (1)

AUTHORS:

Titlyanova, A. A., Tyuryukanov, A. H., SOV/20-126-6-55/67

Makhonina, G. I.

TITLE:

On the Descriptive Effect of Natural Extracts (O desorbiruyu-

THE PERSON OF TH

shchem deystvii prirodnykh ekstraktov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1346 - 1349

(USSR)

ABSTRACT:

First the effect of the presence of organic substances in natural waters is discussed. This effect is very different (Refs 1-5). Especially important is the formation of complexes with different metals. In recent years the interest in these natural complexons has considerably increased. They are able to transfer the metals immediately from the crystalline mineral lattices or from the soil-absorption-complexes (pochvennyy pogloshchayushchiy kompleks) into the soil solutions (Refs 6-9). Such complexons existing also in living organisms can be extracted by water after the death of the latter or they can regenerate in the case of the putrefaction of vegetable or animal remains. The authors detected the effect mentioned in the title in the case of zinc. The following elements were investigated: iron, zinc, cobalt, and yttrium (which are all consider-

Card 1/3

On the Desorptive Effect of Natural Extracts

SOV/20-126-6-55/67

ably complex-forming), strontium (less complex-forming) and cesium (practically not complex-forming). Their radioactive isotopes were used in indicator masses without carriers. Mainly meadow soil (South-Urals), black soil (Kursk district), red soil (Georgia) and fuller's earth (horizon A₂, Moscow district)

were selected for the experiments. In the first experimental series the desorption of Fe, Co, and Zn from different soils by aqueous extracts of yellow leaves of birch-tree (Betula), pine (Pinus), bird-cherry (Prunus padus) and asp (Populus tremula) and of green wormwood (Artemisia) [species could not be found] were investigated. Approximately 100 g were treated with 5 l sea water during 1 week. In the IInd series the desorption of Zn, Sr, Y, and Cs from meadow soil was investigated and concentrated extracts from asp-, bird-cherry- and birch-tree leaves (2 weeks extraction) were used. The desorption with water and 0.01 n EDTA-solution (one of the strongest complexons) was used for comparison. Figure 1 shows the results of the Ist series. The extracts desorb Fe, Co, and Zn less than EDTA-colution, but more than water. The extracts act especially strongly on Co and Zn, but also Fe is desorbed by 1.5 time more than by water. Asp

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On the Desorptive Effect of Matural Extracts

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leaves and Artemisia vulgaris act more strongly than birch-tree, bird-cherry, and pine. The description proceeds differently in different soils. The decrease of the humus content increases the description—%. In the IInd experimental series Cs was very little described by EDTA-solution as well as by extracts. It was assumed that the describing effect of the extracts can be explained by a complex formation. Experiments with zinc which were bound to confirm this assumption showed that the effect of the investigated extracts is not directly connected with their active reaction. In exists in different forms in the solution. The effect of the natural extracts on the processes of the element migration in waters and soils is in any case strong. There are 2 figures and 9 references, 5 of which are Soviet.

ASSOCIATION:

Institut biologii Ural'skogo filiala Akademii nauk SSSR (Institute of Biology of the Urals Branch of the Academy of Sciences, USSR) Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

March 21, 1959, by I. V. Tyurin, Academician

SUBMITTED:

March 19, 1959

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

KHOLLICHER, Val'ter [Hollitscher, Walter]; AKCHURIN, I.A. [trenslator];
ARKHANGEL'SKIY, M.S. [trenslator]; MOCIALIN, D.N. [trenslator];
OMEL'YANOVSKIY, M.E., skademik, red.; OPARIN, A.I., skademik, red.;
MASKVICH, A.G., doktor fiziko-matem.nauk, red.; OVCHINNIKOV, N.F.,
kand.filosof.nauk, red.; ITURTUKANOV, A.N., kand.biolog.nauk, red.;
GAL'PERIN, P.Fs., dotsent, red.; URYSON, M.I., kand.biolog.nauk,
red.; MAKAROV, A.A., red.izd-ve; ZOTOVA, N.V., tekhn.red.

[Nature in the scientific picture of the world] Priroda v nauchnol
kartine mira. Obahchaia red. i vstupitel'naia stat'ia M.E.
Omel'ianovskogo. Moskva, Izd-vo inostr.lit-ry, 1960, 469 p.

1. AN USSR (for Omel'yanovskiy).

(Science--Philosophy)

TYURYUKANOV, A.N.

Singular features-of floodplain structure and soil for ration processes in the Moscow River Valley. Izv. AN SSSR. Ser. geog. no.6:69-73 N-D '60. (MIRA 13:10)

1. Moskovskiy Gosudarstvennyy universitet im. M.V.Lomonosova Biologopochvennyy fakul tet. (Moscow Valley--Soils)

MAKHONINA, G.I.; MOLCHANOVA, I.V.; SUBBOTINA, Ye.N.; TIMOFWYEV-HESOVSKIY
H.V.; TITLIANOVA, A.A.; TUHTUKAKOV, A.N.

Experimental investigation of radioisotope distribution in
natural biogeocoenoses. Dokl.AN SSSR 133 no.2:484-487
J1 '60. (NIRA 13:7)

(Radioactive substances) (Forest ecology)

TYURYUKANOV, A.N.; VASIL'YEVSKAYA, V.D.

Geochemical soil characteristics of Meshchovsk field lands. Vest. Mosk. un. Ser. 6: Biol., pochv. 19 no.4:64-70 Jl-Ag '64. (MIRA 17:12)

1. Kafedra pochvovedeniya Moskovskogo universiteta.

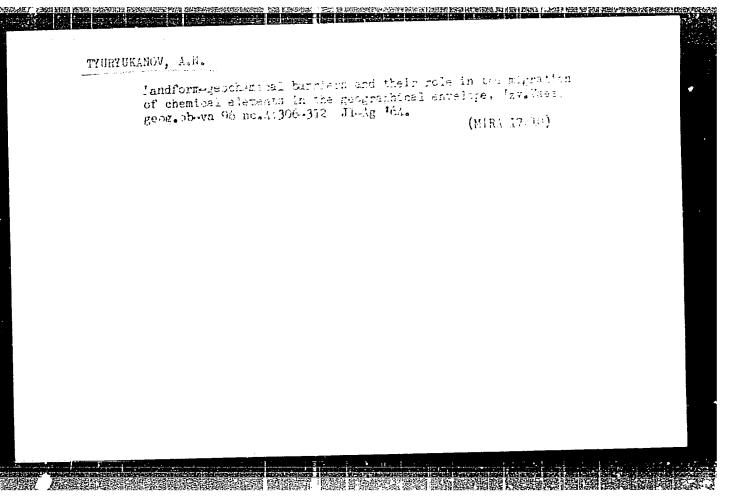
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TYURYUKANOVA: E.B.; PAVLOTSKAYA, F.I.; TYURYUKANOV, A.N.; ZATSEPINA, L.N.; BABICHEVA, Ye.V.; RODIONOVA, L.M.

Migration and distribution of strontium-90 and cerium-144 in the soils of Moscow Province. Pochvovedenie no.10:66-73 0 164.

(MIRA 17:11)

1. Institut biokhimii i analiticheskoy khimii imeni Vernadekogo.



TYURYUKANOV, A.N.; SHAMAYEVA, G.M.

Cartogram of the iodine content of soils in Kaluga Province and methods of its drawing. Nauch. dokl. vys. shkoly; biol. nauki no. 2:196-198 '64. (MIRA 17:5)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

TYURYUKANOV, A.N.; SHAMAYEVA, G.M.

Iodine distribution in soils as related to their type and microrelief. Nauch.dokl.vys.shkoly; biol.nauki no.2:171-174 (MIRA 16:4)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

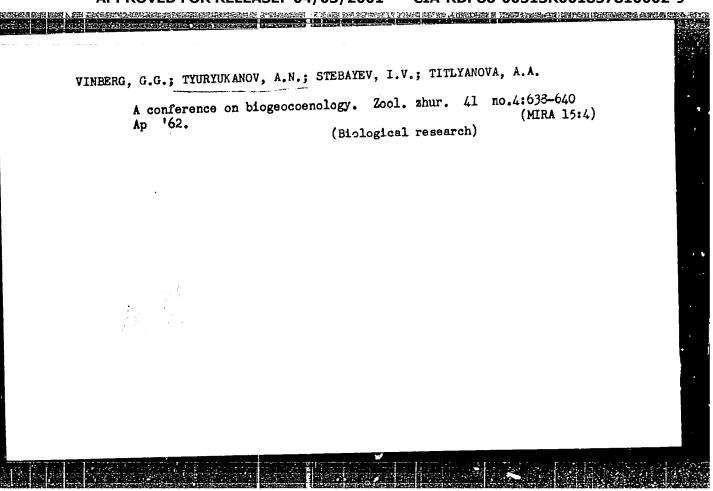
(SMOLENSK PROVINCE—SOILS—IODINE CONTENT)

BYSTRITSKAYA, T. L.; TYUKYUKANOV, A. N.

On the genetic transition class of soils and certain darkcolored types it contains. Dokl. AN SSSR 147 no.4:935-937 D 162. (MIRA 16:1)

1. Institut biologii Ural'skogo filiala AN SSSR i Institut obshchey i kommunal'noy gigiyeny im. A. N. Sysina AMN SSSR. Predstavleno akademikom V. N. Sukachevym.

(Soil formation)



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MAKHONINA, G.I.; MOLCHANOVA, I.V.; Prinimali uchastiye: TITLYANOVA, A.A.;
TYURYUKANOV, A.N.

Investigating the behavior of very small quantities of iron and zinc in soils. Nauch. dokl. vys. shkoly; biol. nauki no.4:218-225 '61. (MIRA 14:11)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(SOIIS-IFON CONTENT) (SOIIS-ZINC CONTENT)

IVANOV, A.S.; KUZ'MENKO, I.T.; TYURYUKANOV, A.N.

Iodine content of soils in Moscow Province; with regard to the problem of the endemy of goiter. Nauch. dokl. vys. shkoly; (MIRA 14:2) biol. nauki no. 1:213-217 '61.

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova i Zagorskim rayzdravotdelom Moskovskoy oblasti. (MOSCOW PROVINCE—SOILS—IODINE CONTENT)

(GOITER)

TYURYUKANOVA E.B.; PAVIOTSKAYA, F.I.; TYURYUKANOV, A.N.; YATSEPINA, L.N.;
BABICHEVA, Ye.V.; RODIONOVA, L.M.

Migration and distribution of strontium-90 and cerium-144 in the soils of Moscow Province. Pochvovedenie no.10:66-73 0 164.

(MIRA 17:11)

1. Institut biokhimii i analiticheskoy khimii imeni Vernadskogo.

L 05801-67 EWT(m) OD

ACC NR. AT6031240 SOURCE CODE: UR/0000/65/000/0001/0021

AUTHOR: Pavlotskaya, F. I.; Zatsepina, L. N.; Tyuryukanova, E. B.;

Barepov, V. I.

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ORG: none

TITLE: Mobility and forms of occurrence of strontium-90, stable strontium, and calcium in turf-podzol

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii.

Doklady, 1965 O podvizhnosti i formakh nakhozhdeniya strontsiya-90, stabil'nogo strontsiya i kal'tsiya v dernovo-podzolistoy i chernozemnoy pochvakh, 1-21

TOPIC TAGS: strontium, calcium, radioactive fallout, stable strontium, strontium mobility, calcium strontium occurrence, stable strontium mobility, calcium occurrence

ABSTRACT: A study was conducted to determine the mobility of fallout strontium-90, stable strontium, and calcium, and the forms in which they occur in different genetic horizons in turfy podzol soils of the forest zone and in chernozem soils of the steppe zone. (Mobility is defined as the ratio between the total amount of the element in water-soluble and exchange states as compared with the amount in an Cord 1/2

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ACC NR: AT6031240

acid-soluble solution, expressed in percentage). It was found that in the furrow slice in turfy podzol soils the mobility of strontium-90, stable strontium, and calcium is practically the same and constitutes 90%; in typical chernozem the mobility of radioactive and stable strontium is to an order of 65%, and that of calcium 85%. In virgin soils the same mobility ratios prevail, but at lower values. The observed differences in mobility between turfy podzol loamy soils and chernozem, and between cultivated and virgin lands are mainly a function of the difference in the possibility of their occurrence in a water-soluble state. Furthermore, strontium-90 occurs in a greater degree in the water-soluble state than stable strontium or calcium. Besides the physicochemical properties of soils, a significant effect on the form of occurrence, mobility, and the character of distribution of strontium-90, stable strontium, and calcium in the soil is the source of the element, soil texture (in the case of virgin soils), and the agricultural practices used (in the case of cultivated soils). Thus, the form of occurrence and mobility of the elements discussed in a given soil is a function of the soil's physicochemical composition, its genetic structure, vegetation cover, and amount and composition of the organic component. Orig. art. has: 5 figures and 6 tables. [Based on authors' abstract]

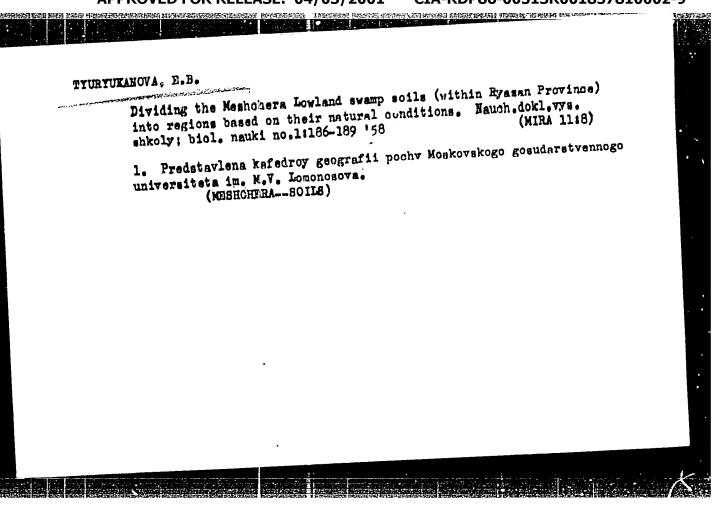
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J	L 48 174-65 SAT(m)/EAP(b)/EP	(t) Peb MAAP/IJP(c)	10	
1	ACCESSION NR: AP5014016	UR/0089/	65/018/003/0246/0250	8
	AUTHOR: Baranov, V. I.; Pario	tckaya, F. I.; Fedoseyev, e; Attepina, L. N.; V	G. A.; Tyuryukanova, E. Ostokova, T. A.	В.
;	Q		arar iti. in from 1950-1	o60
	SOURCE: Atomnaya energiya, v	18, no. 3, 1965, 246-250		
	TOTIS TAGS: strontium, iso to	er soil, soil property		
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	upper layer of the soil (5 and The amount of Sr in the sail sryo in soil layer depends as one are the said.	inly on the terrain and 39	1700 · · · · · · · · · · · · · · · · · ·	o f
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	NO REF SOV: 006	OTHER: 014	NA	

TYURYUKANOVA. E.B.

Swamp soils of the Meshchera Lowland, Vest. Mosk. ur. Ser. biol., pochv., geol., geog. 12 no.4:115-123 '57. (MIRA 11:5)

1. Kafedra geografii pochv Moskovskogo gosudarstvennogo universiteta. (Meshchera—Soils) (Swamps)



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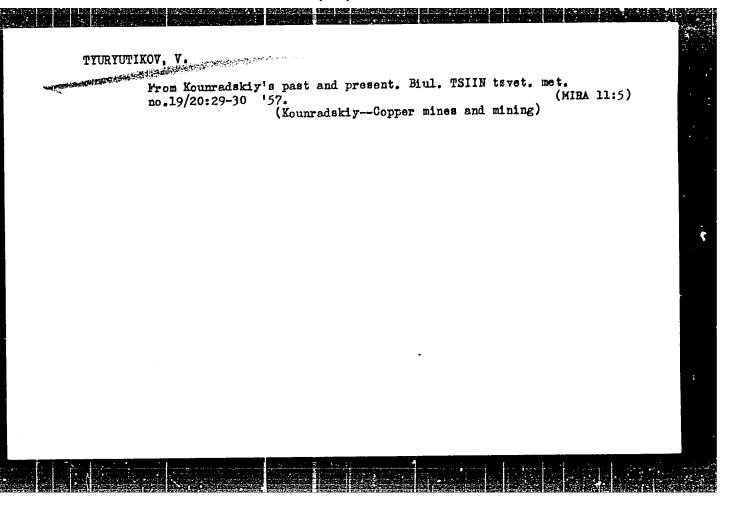
"Some Regularities of the Distribution and Migration of Radioactive Elements in the Soil Stratum."

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BARANOV, V.I.; PAVIOTSKAYA, F.I.; FEDOSEYEV, C.A.; TYURYUKANQVA, E.B.;
RODIONOVA, L.M.; HABICHEVA, Ye.V.; ZATSEPIRA, L.N.; VOSTOKOVA, T.A.;
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Union during 1959-1960. Atom. energ. 18 no.3;246-250 Mr '65.

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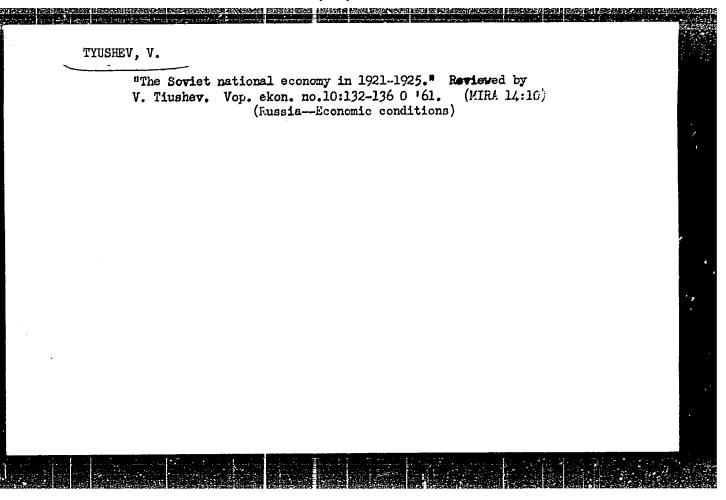


TARZIMANOV, G.A. Frining I discussioner Kurtuf, A.M., image, PAKHOMOV.

V.V., inzh., TYBUHEY A.M. 1997, Mahdi, Ya.M., inzh.,
retsenzeat; MISURSYI, M.M., kanalisakan naik, req.

[Design of machare boles, hamiliak for technical designers]
Procktirovanie meda. Internazionali sympkir, v pomoshibi
teknniko-konstruktoro. Miskie, Mara, mesuraente, 1965. 235 p.

(MIHA 18.12)



BUDNIK, G.I., kand.ekon.nauk; AVDAKOV, Yu.K., dotsent. kand.ekon.nauk; SARYCHEV, Y.G., kand.ekon.nauk; PREOBRAZHENSKIY, A.A., kand. istor.nauk; AVDAKOV, Yu.K., dotsent, kand.ekon.nauk; POLYANSKIY, F.Ye., prof., doktor istor.nauk; ZUTIS, Ya.Ya. [Zntis, J.]; GULANYAN, Kh.G., prof., doktor ekon.nauk; GULANYAN, Kh.G., prof., doktor ekon.nauk; GULANYAN, Kh.G., prof., kand.ekon.nauk; KHROMOV, P.A., prof., doktor ekon.nauk; SHALASHILIN, I.Ye., dotsent, kand.ekon.nauk; SEMYAKIN, I.N., dotsent, kand.ekon.nauk; POCREBINSKIY, A.P., prof., doktor ekon.nauk; ORLOV, B.P., dotsent, kand.ekon.nauk; TYUSHEY, V.A., kand.ekon.nauk; BALASHOVA, A.V., kand.ekon.nauk; MOZHIN, V.P., kand.ekon.nauk; MINDAROV, A.T., dotsent, kand.ekon.nauk; SilGALIN, G.I., prof., doktor ekon.nauk; GOLUBNICHIY, I.S., prof., doktor ekon.nauk; VOSKRESENSKAYA, T., red.; BAKOVETSKIY, O., mladshiy red.; MOSKVINA, R., tekhn.red.

REPORT OF THE PERSON OF THE PE

[History of the national economy of the U.S.S.R.; lecture course]
Istoriia narodnogo khoziaistva SSSR; kurs lektsii. Moskva, Izd-vo
sotsial'no-ekon.lit-ry, 1960. 662 p. (MIRA 13:5)

1. Deystvitel nyy chlen AN Letviyskoy SSR (for Zutis). (Russia--Economic conditions)

POLYANSKIY, F.Ya., prof.; SHEMYAKIN, I.N., prof.; GLUKHAREV, L.I., dots.; ROMANCHENKO, L.N., kand. ekon. nauk; KAYYE, V.A., kand. ekon. nauk; MOTUS, P.P., kand. ekon. nauk; TYUSHEV, V.A., kand. ekon. nauk; ROMANCHENKO, L.N., kand. ekon. nauk; AVDAKOVA, Yu.K., kand. ekon. nauk, dots., red.; SPERANSKAYA,L., red.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., mladshiy red.; NOGINA, N., tekhn. red.

[Economic history of capitalist countries] Ekonomicheskaia istoriia kapitalisticheskikh stran; kurs lektsii. Moskva, Sotsekgiz, 1962. 634 p. (MIRA 16:2)

(Economic history)

TYUSHEV, Vyacheslav Serapionovich; MACHUL'SKIY, P.A., red.;

ALEKSANDROV, L.A., red. izd-va; LAVKENOVA, N.B., tekhn.

[Packing systems for marine engines operating without lubrication] Uplotnitel'nye ustroistva sudovykh mekhanizmov, rabotaiushchie bez smazki. Moskva, Izd-vo "Morskoi transport," 1962.

51 p. (MIRA 15:7)

(Marine engines) (Packing (Mechanical engineering))

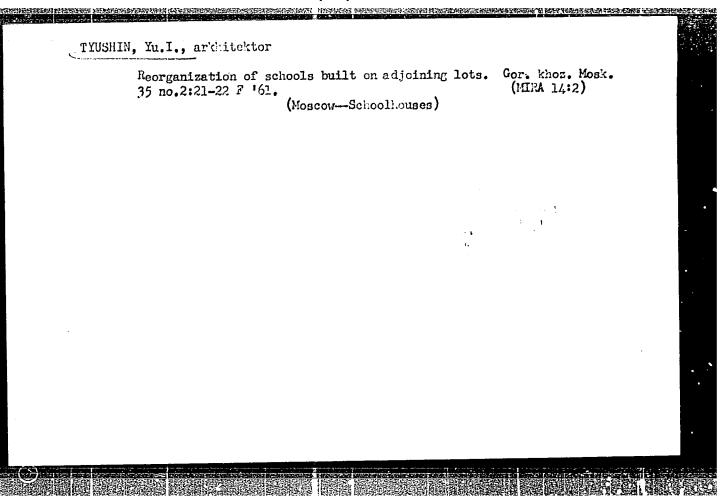
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TYUSHIN, Yu.I., arkhitektor

Optimum consolidation of seven-year schools. Izv. ASiA 4 no.2:45-49 162.

(Schoolhouses)



VOLOSHIN, I.F., kand. tekhn. nauk; DOROSHEVICH, M.; KARACHENTSEVA, N.;
KASPEROVICH, A.A; KUPCHINOV, V.; TYUSHKEVICH, N.; KASPER, M.,
red.

[Semiconductors and their engineering applications] Poluprovodniki i ikh primenenie v tekhnike. [By] I.F.Voloshin i dr.
Minsk, Izd-vo "Belorus'," 1963. 286 p. (MIRA 17:4)

L 15119-65 EWA(h)/EWG(F)/EWT(1) Pu-6/Peb IJP(c) AT

ACCESSION NR: AP4047661

S/0119/64/000/010/0001/0003

AUTHOR: Tyushkevich, N. I. (Candidate of technical sciences)

TITLE: How to allow for the parameter apread of competents in designing photovaristor-type photorelays.

SOURCE: Prinorostroyeniya, no. 10, 1964, 1-3

TOPIC TAGS: photorelay, photorelay design, photovaristor

ABSTRACT: For designing a photorelay circuit, this formula is recommended: $R_E = AU_E^{-1}E^{-\epsilon}$, where R_E is the photovaristor resistance. A is a constant, U_E is the photovaristor voltage, Y is the nonlinearity factor of the current-voltage characteristic, E is the photovaristor illumination. α is the nonlinearity factor of the current-illumination characteristic. From the above, the relay current and turn-on and turn-off illuminations as the salin lated. Analytical art $-x_E$ in mental approaches to the problem of the current of parameters of the current and $-x_E$.

Card 1/2

L 15119-65
ACCESSION NR AP4047661

Components are indicated; both approaches have been tried in designing the FR-1 photorelay; some results are reported. Orig. art. has: 3 figures. 14 formulas.

ASSOCIATION: Minskiy elektrotekhnicheskiy zavod (Minsk Electrotechnical Mamufacturing Plant)

SUBMITTED: 00

ENGL: 00

SUB CODD: EC NO REF SOV: 003

OTHER: 001

Sensitive automatic control elements having transistorized modulating

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transducers with limited power dissipation. Izv. vys. ucheb. zav.; energ. 4 no.1:47-53 Ja '61. (MIRA 14:2)

1. Institut energetiki AN RSSR. Predstavlene nauchnym seminarom laboratorii elektrotekhniki.
(Automatic control) (Transducers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001857810002-9"

L 12262-63

BDS

3/271/63/000/004/007/045

AUTHOR:

Tyushkevich, N. I.

TITLE:

The adaptation of the lost-motion method and the short-circuit method

to computing the sensitive organs of automations

PERIODICAL:

Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 4, 1963, 12, abstract 4A73 (Materialy Konferentsii

molodykin uchenyich AN BSSR, Minsk, AN BSSR, 1962, 86-92).

The author describes a menad for computing the static operation of the sensitive organs of an automation with ohmic semiconductor pickups (P). The method enables one to obtain the maximum sensitivity of the organ under the condition where the dissipated power in the P does not exceed the permissible magnitude for a given value of the controlled parameter (temperature, luminous flux, radioactive flux, etc.). There is a diagram for the operation of a P (static and dynamic characteristics of the P, and a curve for nominal dispersed power of the P). The author describes a bridge circuit (BC) of a sensitive element with the P on one bridge arm. His conclusions include the following: 1. to increase the sensitivity of circuits, it is advisable to use a P with a high degree of inductive resistance (Rx); 2. the greatest sensitivity, as regards current, is possessed by a differential

Card 1/2

plest relationships. The proposed method of computation may be utilized both in the planning of sensitive elements of an automation with serial production of pickups, and in the preparation of pickups for previously determined loads and for the circuits of the sensitive elements. There are three illustrations and a bibliography Abstracter's note: Complete translation ard 2/2	regards power, by a of voltage: and 3	ridge circu serices ci	s/271/63/000/004/007/04.5 a gram-roentgen of current; and as regards voltage, wit with feed from a gram-roentgen of voltage; and as incuit with shunt and with feed from a gram-roentgen the described method enables one to obtain the sim-	
ard 2/2	planning of sensiti	ve elements	of an automation with serial production of pickups.	
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TYUSHKEVICH, N.I., inzh.

Semigraphical method for determining the sensitivity of networks with nonlinear modulating transducers.

Izv. vys. ucheb. zav.; energ. 5 no.10:41-45 0 462.
(MIRA 15:11)

1. Energeticheskiy institut AN BSSR.
(Electric networks)
(Transducers)

MANGUTOV. Nikolay Romanovich; TYUSHEV, V.P., spets. red.; SUMKIN, A.N., red. izd-va; ASTAKHOV, I.A., tekhn. red.

[Land reform in Soviet Buryat-Mongolia, 1917-1933] Agrarnye preobrazovanila v Sovetskoi Buriatii; 1917-1933 gg. Ulan-Ude, Buriatskii kompleksnyi nauchno-issl. in-t, 1960. 213 p. (MIRA 14:11) (Buryat-Mongolia-Land tenure)